

RE: [External]-345894 FW: Burner

Woloshyn, Jennifer to: Benjamin W Cook, Bencho, John Aoife McDermott, Darren M Gietzen , "Mysko, David",

Cc: "Lougheed, Fraser" , "Stephani Campbell (scampbell@uss.com)"

, Teresa J Simetkosky

Hi Ben,

In the model we specify the flow rates, so the back pressures should come out in the wash. It will be correctly accounted for.

Best regards, Jennifer

From: Benjamin W Cook [mailto:BWCook@uss.com]

Sent: Friday, March 27, 2015 9:37 AM

To: Bencho, John

Cc: Aoife McDermott; Darren M Gietzen; Mysko, David; Lougheed, Fraser; Woloshyn, Jennifer; Stephani

Campbell (scampbell@uss.com); Teresa J Simetkosky

Subject: Re: [External]-345894 FW: Burner

One item I thought of this morning, looking at the sketch, is are we taking into account the back pressure on the natural gas coming out of the gas orifice? Under normal operation on straight gas this would be around 10 psi. With biomass on so that there is less flow, this would be around 5 psi.

Thanks,

Ben Cook Process Engineer Minntac Agglomerator U.S. Steel (O) (218) 749-7346 (M) (218) 966-9231 (F) (218) 749-7265

From: "Bencho, John" <JBencho@hatch.ca>

To: Aoife McDermott < AMcDermott@aecometric.com >,

Cc: "BWCook@uss.com" <BWCook@uss.com>, Teresa J Simetkosky <TJSimetkosky@uss.com>, "Stephani Campbell

(scampbell@uss.com)" <scampbell@uss.com>, Darren M Gietzen <DMGietzen@uss.com>, "Woloshyn, Jennifer" <JWoloshyn@hatch.ca>, "Lougheed, Fraser" <FLougheed@hatch.ca>, "Mysko, David" <DMysko@hatch.ca>

Date: 03/26/2015 02:19 PM

Subject: [External]-345894 FW: Burner

Aoife,

03/27/2015 10:32 AM

Can you provide a recommendation for dimensions A and B shown on the attached sketch.

All.

Please provide and comments or concerns you may have on attached.

Thanks.

John Bencho Project Manager Hatch Associates Consultants, Inc.

Phone (412)497-2130

From: Woloshyn, Jennifer

Sent: Thursday, March 26, 2015 1:20 PM

To: Bencho, John Subject: FW: Burner

Hi John,

Please see attached our interpretation of the burner modification sketch. Feel free to distribute this to whomever should comment. Mark will begin the 3D geometry on this basis shortly.

Best regards, Jennifer

From: Allan, Mark

Sent: Thursday, March 26, 2015 1:17 PM

To: Woloshyn, Jennifer

Subject: Burner

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[attachment "2015.03.26 Kiln Burner Modification.pdf" deleted by Benjamin W Cook/Minntac/USS]